10/723,220

pyrazol-1-yl]methyl]propyl 2-oxo-3-[(2-pyridinylsulfonyl)amino/propylcarba mate), which are useful as cathepsin K inhibitors. The described invention also includes methods of making such ketone deprivs. as well as methods of using the same in the treatment of disorders, including osteoporosis. Although the methods of preparation are not claimed, 19 example prepns. are included. Each of the compds. exemplished in the Examples section bind with high affinity (IC50 < 10 μ M) to the cathepsin K enzyme, e.g. (1S)-1-[[4-(1H-imidazol-1-yl)phenoxy]methyl]-2,2dimethylpropyl (1S)-1-[[(2-pyridinylsulfonyl)emino]acetyl]pentylcarbamate exhibits an IC50 of .apprx.10-1 nM or less. For I: A = (Q3)p-(Q2)n - (Q1)-(Q)m- (Q is CH2 and m = 0-2, or Q is OCH2 and m is 1, or Q is N(R3)CH2 and m is 1, where R3 is H or C2-C6 alkyl; Q1 is aryl, heteroaryl, or heterocyclyl; Q2 is CH2 and n is 0 or 1, or Q2 is 0 and n is 1, or Q2 is N(R3) and n is 1, where R3 is H or C1-C6 alkyl; Q3 is aryl or heteroaryl and p is 0 or 1). R1 is alkyl or cycloalkyl, said cycloalkyl may be optionally substituted with alkyl; D is O or S; R2 is H or alkyl; and Z is -(X1)q-(X2) (X1 is $S(Q)^2$, C(Q), or -CH2-, and q=0-2; and X2 is aryl, heteroaryl, or heterocyclyl). For II: B is -(Q1)a-(Q2)b-(Q3) (Q1 is C(Q), S(Q), or CR2R3, where R2 and R3 each = H or C1-C6 alkyl, and a = 0-3; Q2 is O, S, NR2, or CR2R3, where R2 and R3 each = H or C1-C6 alkyl, and b = 0-3; and Q3 is apyl, heteroaryl, heterocyclyl, aralkyl, or alkyleneheterocyclyl). \nearrow R1 is H or alkyl; Z is -(X1)q-(X2) (X1 is S(0)2, C(0), or alkyl, and q/is 0 or 1; and X2 is aryl, heteroaryl, or heterocyclyl).

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INVENTOR(S): Wolfe, Michael S.; Selkoe, Dennis J.

PATENT ASSIGNEE(S): The Brigham and Women's Hospital, Inc., USA

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